

Claims

1. A package for use in a peritoneal dialysis treatment, wherein the package includes a line set (1), which comprises
 - 5 a first tubular line element (1a), a second tubular line element (1b) and at least one component (2, 5, 7, 4, 8a, b, c) connected to the tubular line elements (1a, b), characterized in that the package comprises organizing means (9) arranged to organize the line set (1) such that no part
 - 10 of the line set (1) extends across another part of the line set (1).
2. A package according to claim 1, characterized in that the organizing means (9) is arranged to organize the whole line set (1) at substantially the same level.
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3. A package according to claim 1 or 2, characterized in that the organizing means is arranged to organize the line set (1) such that no part of the tubular line elements (1a, b, c) is in contact with another part of the tubular line elements (1a, b, c).
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4. A package according to any one of the preceding claims, characterized in that that the organizing means (9) is arranged to organize the line set (1) in a spiral-shaped state.
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5. A package according to any one of the preceding claims, characterized in that at least one tubular line element (1a, b, c) is pre-shaped to extend along a desired path.
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6. A package according to any one of the preceding claims, characterized in that said organizing means comprises a holding member (9) arranged to hold at least one portion of the first tubular line element (1a) in a predetermined
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position in relation to a portion of the second tubular line element (1b).

5 7. A package according to claim 6, characterized in that the holding member (9) is arranged to perform said holding in a detachable manner.

10 8. A package according to claim 7, characterized in that the holding member (9) comprises a first elongated recess (11), restricted by at least one resilient jaw-shaped member (11a, b), which is provided with at least one concavity (12a, b, c) for holding detachably said portion of the tubular line element (1a, b, c).

15 9. A package according to any one of the claims 6 to 8, characterized in that the holding member (9) is arranged to hold the two portions, which are positioned in a predetermined position in relation two each other, such that the tubular line elements have a substantially parallel 20 extension in the vicinity of the holding member (9).

10. A package according to any one of the preceding claims 7 to 10, characterized in that the holding member (9) is arranged to hold fixedly a second connector (5), which is 25 mounted to an end of the second tubular line element (1b).

11. A package according to claim 10, characterized in that the holding member (9) comprises a hole (10) extending through the holding member (9) for receiving said connector 30 (5).

12. A package according to any one of the preceding claims, characterized in that the package comprises a drain bag (6), wherein the line set (1) is connected to the drain bag (6).

13. A package according to any one of the preceding claims, characterized in that the tubular line elements (1a, b, c) are manufactured of PVC.
- 5 14. A package according to claim 12 and 13, characterized in that the drain bag (3) is manufactured of a plastic material having higher resistance against heat than PVC.
- 10 15. A package according to any one of the claims 12 to 14, characterized in that the drain bag (3) is foldable to form two folded parts (6a, b), wherein the line set (1) is positioned in the package between the two folded parts (6a, b) of the drain bag (6).
- 15 16. A package according to claim 15, characterized in that the holding member (9) is arranged to detachably engage one of said folded parts (6a, b) of the drain bag (6).
- 20 17. A package according to claim 16, characterized in that the holding member (9) comprises a second recess (13) restricted by at least one resilient jaw-shaped member (13a, b), which is provided with at least one protruding member (14) for engaging detachably said edge area.
- 25 18. A package according to any one of the claims 12 to 17, characterized in that the line set (1) is connected to the drain bag (6) via a first connector (2) positioned at an outer periphery of the line set (1).
- 30 19. A package according to any one of the preceding claims, characterized in that the package comprises a solution bag (3), wherein the line set (1) is connected to the solution bag (3).
- 35 20. A package according to claim 15 and 19, characterized in that the drain bag (6) is applied on the solution bag (3).

21. A package according to claim 18 and 19, characterized in the line set (1) is connected to the solution bag (3) via said first connector (2) positioned at an outer periphery of 5 the line set (1).

22. A package according to any one of the claims 19 to 21, characterized in that the solution bag (3) is filled with a dialysis solution.

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23. A package according to any one of the preceding claims, characterized in that the line set (1) comprises a third connector (7), which is connectable to a patient connector.

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24. A package according to claim 23, characterized in that the third connector (7) is arranged in a space at an inner periphery of the line set (1).

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25. A package according to any one of the preceding claims, characterized in that line set comprises a component in the form of at least one flow organizer (8a, b, c), wherein said organizing means (9) is arranged to provide a space sufficient for the flow organizer (8a, b, c) such that the flow organizer (8a, b, c) does not load on any part of the 25 tubular line elements (1a, b, c).

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26. A package according to any one of the preceding claims, characterized in that package comprises a wrapping (16) for encasing the line set (1) and other included parts (3, 6) of the package.

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27. A method for manufacturing of a package for use in a peritoneal dialysis treatment, wherein the package including a line set (1), which comprises a first tubular line element (1a), a second tubular line element (1b) and at least one component (2, 5, 7, 4, 8a, b, c) connected to the tubular

line elements (1a, b, c), characterized by the step of organizing the line set (1) such that no part of the line set (1) extends across another part of the line set (1).

5 28. A method according to claim 27, characterized by the step of organizing the whole line set (1) at substantially the same level.

10 29. A method according to claim 27 or 28, characterized by the step of organizing the line set (1) such that no part of the tubular line elements (1a, b, c) is in contact with another part of the tubular line elements.

15 30. A method according to any one of the claims 27 to 29 characterized by the step of organizing the line set (1) in a spiral-shaped state.

20 31. A method according to any one of the claims 27 to 30, characterized by the step of organizing the line set (1) by means of a holding member (9), which holds at least one portion of the first tubular line element (1a) in a predetermined position in relation to a portion of the second tubular line element (1b).

25 32. A method according to any one of the claims 27 to 31, wherein the package comprises a drain bag (6), characterized by the steps of folding the drain bag (3) such it forms two folded parts (6a, b) and applying the line set between the two folded parts (6a, b) of the drain bag (6).

30 33. A method according to claim 32, wherein the package comprises a solution bag (3), characterized by the step of applying the drain bag (6) on the solution bag (3).

34. A method according to any one of the claims 27 to 33, characterized by the step of providing the package with a wrapping.

5 35. A method according to any one of the claims 27 to 34, characterized by the step of exposing the package for autoclave sterilization.

10 36. A holding member arranged to organize a line set (1) in a package for use in a peritoneal dialysis treatment, wherein the line set comprises a first tubular line element (1a), a second tubular line element (1b) and at least one component (2, 4, 5, 7, 8a, b, c), connected to the tubular line elements (1a, b, c), characterized in that the holding 15 member (9) is arranged to hold at least one portion of the first tubular line element (1a) in a predetermined position in relation to a portion of the second tubular line element (1b).

20 37. A holding member according to claim 36, characterized in that the holding member (9) is arranged to perform said holding in a detachable manner.

25 38. A holding member according to claim 37, characterized in that the holding member (9) comprises a first elongated recess (11) restricted by at least one resilient jaw-shaped member (11a, b), which is provided with concavities (12a, b, c) for holding detachably said portion of the tubular line element (1a, b, c).

30 39. A holding member according to any one of the claims 36 to 38, characterized in that the holding member (9) is arranged to hold the two portions in a predetermined position in relation to each other, such that the tubular 35 line elements have a substantially parallel extension in the vicinity of the holding member (9).

40. A holding member according to any one of the claims 36 to 39, characterized in that the holding member (9) is arranged to hold fixedly a second connector (5) mounted at 5 an end of the second tubular line element (1b).

41. A holding member according to claim 40, characterized in that the holding member (9) comprises a hole (10) extending through the holding member (9) for receiving said 10 connector (5).

42. A holding member according to any one of claims 36 to 41, wherein the package comprises a drain bag (6), characterized in that the holding member (9) is arranged to 15 hold detachably an edge portion of the drain bag (6).

43. A holding member according to claim 42, characterized in that the holding member (9) comprises a second recess (13) restricted by at least one resilient jaw-shaped member 20 (13a, b), which is provided with a plurality of protruding members (14) for holding detachably the edge portion of the drain bag (6).

44. Use of a holding member according to any one of the 25 preceding claims 36-43 for organizing a line set in a package for use in a peritoneal dialysis treatment.